

```

graph LR
    1[1  
Device placed in  
vacuum  
chamber] --> 2[2  
Device Surface  
cleaned by ion  
beam sputtering]
    2 --> 3[3  
Bioactive  
material evolved  
and deposited  
on surface of  
device]
    3 --> 4[4  
Initial layer of  
bioactive  
material alloyed  
into surface of  
device]
    4 --> 5[5  
Bioactive layer  
grown while  
continuously  
augmented by  
ion beam]
  
```

The flowchart illustrates the five steps in the development of a bioactive coating:

1. Device placed in vacuum chamber
2. Device Surface cleaned by ion beam sputtering
3. Bioactive material evolved and deposited on surface of device
4. Initial layer of bioactive material alloyed into surface of device
5. Bioactive layer grown while continuously augmented by ion beam

A diagram showing a vertical rectangular box divided into three horizontal layers. The top layer is labeled '1c', the middle layer is labeled '1b', and the bottom layer is labeled '1a'. A dashed horizontal line with an arrow pointing to it from the left is labeled '1d'.

F16 3